If at First You Don’t Succeed in Your Instruction Methodology, Try, Try Again

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Critiques of Lecture-based Instruction

Low level of student engagement (passive)
  Attention span limitations

Does not employ a variety of learning styles/skill sets

Information transmission fallacy (Schmidt et al., 2015)

Creates a chasm between theory and practical applications
What is Active Learning?

“Active learning is generally defined as any instructional method that engages students in the learning process. In short, active learning requires students to do meaningful learning activities and think about what they are doing” (Prince, 2004)
Active Alternatives

Problem-based learning

Cooperative learning or team-based learning (Loo, 2013)

Game based learning (Broussard, 2012)

Clickers/audience response systems (Funnell, 2017)
Three Case Studies

1. Online information literacy tutorials for Franklin Pierce first years
2. MLA citation game for LIU sophomores
3. Amazing Library Race orientation for LIU Brooklyn first years
Online Information Literacy Tutorials at Franklin Pierce University

- Small primarily undergraduate liberal arts college in NH
- About 1450 undergraduates
- Primarily residential
- DPT, PA graduate programs and online students
First Year Inquiry

- Required First year seminar
- Information Literacy one of the Learning Outcomes
- All classes have a required research project component
The Traditional One Shot for First Year Students

http://libguides.franklinpierce.edu/FYI

- Three years ago, we developed a libguide and a worksheet for the traditional one shot session
- We see all sections of FYI and all FYI classes meet MWF at either 9 AM or 2 PM
- Class covers research basics such as
  - Inquiry questions
  - Background information
  - Basic catalog and database keyword searching
  - Developing keyword terms
Problems with the Traditional One-Shot

● Timing/Scheduling
  ○ Many classes come to the library well before they have been introduced to their research project

● No Inquiry Question
  ○ Many students come to the library without an inquiry question that they can use to complete the worksheet

● Information overload
  ○ We are bombarding them with too much info for a 50 minute session
First Year Information Literacy Assessment

- Pre-test at beginning of first year prior to library instruction
- Post-test at the end of first semester
- Learning outcomes
  - Basic keyword searching in catalog and database
  - Identification of important keywords of an inquiry question
  - General information literacy knowledge
Observations from Teaching FYI

- Two FPU librarians taught FYI in the fall of 2016 (Shannon & Ingles, 2018)
- Structured class environment
  - Able to come up with keyword terms
  - Use keyword terms in databases and catalog
- Solo research
  - Lacked initiative
  - Forgot about keyword terms and library databases
  - Entered entire inquiry question into catalog search box
  - Googled research question
Why Online Tutorials?

● Scaffolded instruction
  ○ Ability to introduce concepts to students a little bit at a time throughout the semester
  ○ Avoid information overload

● Timing
  ○ Increased ability to delivery online tutorials when students are working on a particular concept

● Videos can be revisited for increased understanding

● Images and graphics have potential to enhance learning
Why Online Tutorials?

● Identifying areas of concern
  ○ By creating quizzes that students must compete, instructors can see where students are struggling in order to identify concepts that need more work

● Students get practice using library tools without an instructor present
  ○ Must must problem solve and think for themselves instead of simply doing

● Face-to-face sessions can be focused on personal research
  ○ If sections do come to the library, the session can be geared more to individual research since students will have already received training through the online tutorials
Creating the Tutorials

- Canvas LMS quizzes
- Each tutorial corresponds to a tab on the FYI libguide
  - Inquiry question, keywords, catalog, database
- Videos
  - Pre-existing creative commons licensed library tutorials
    - Google vs library resources, scholarly vs popular
  - Screencastomatic created videos
    - Website navigation, catalog, and database searching
- Active Learning
  - Students must actually use the catalog or use academic search complete tutorials
- Tutorials added to canvas commons and professors must import into class
Video Tutorials vs. Traditional One-Shot Assessment
LIU Brooklyn

Home of the Blackbirds!

Urban campus located in Downtown Brooklyn, New York

About 4200 undergrad students and 2700 grad students

Offers 200+ degrees and programs
Why Games?

Difficult to gauge student comprehension from lecture
Collaborative learning
Active learning
Incorporation of technology
Population

Who: First and second years

What: Active and collaborative MLA game titled *America’s Next Top Citation*

When: 75 minute library session

Where: Library lab

Why: To teach citing in an enjoyable, interactive, and effective method
Poll Everywhere

User-friendly audience response system
Free up to 25 participants
Submit responses via web, text, or Twitter
Multiple choice or open-ended polls
Used successfully in library instruction (O’Connor; Hoppenfeld)
Sample Task

If Miley Ray Cyrus wrote a book how would you list her name in a Works Cited page?

When poll is active, respond at PollEv.com/katelynangel076  Text a CODE to 37607

Cyrus, M.R.  366221
Miley Ray Cyrus  366222
Cyrus, Miley Ray  366223
Assessment

Well-received by students and instructors

Anecdotal evidence
  Teamwork
  Relevance
  Enjoyment

Future steps
  Pre-test/post-test evaluation
Learning Outcomes

Provide general information about collections and services
Foster connections between:
   Students and library faculty
   Students and their peers
Reduce library anxiety among new college students
Have fun! An alternative to lecture-based orientations
Legs of the Race

1. Online Research
   Look up book by Jay-Z; Identity parts of MLA citation

2. Circulation
   Complete Mad Lib about borrowing; Locate a book and draw its cover

3. Media Center
   Recreate DVD cover

4. Reference
   Look up information in reference book
Media Center
Assessment

Observation Rubric

Measures student engagement

Learning Comprehension Rubric (pictured)

Used to grade activity
Assesses student learning outcomes

<table>
<thead>
<tr>
<th>Student Task</th>
<th>Below proficient (0)</th>
<th>Proficient (1)</th>
<th>Above proficient (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1. Find a book in the library catalog and write down the call number.</td>
<td>2+ errors in call number or left question blank.</td>
<td>One error in call number.</td>
<td>Correct call number</td>
</tr>
<tr>
<td>Q2. Describe an Academic Libraries of Brooklyn card and four places it can be used.</td>
<td>Both questions wrong or left question blank.</td>
<td>One of two questions correct.</td>
<td>Both questions correct.</td>
</tr>
<tr>
<td>Q3. Identify components of an MLA citation.</td>
<td>One component identified correctly or left question blank.</td>
<td>Two components identified correctly.</td>
<td>Three components identified correctly.</td>
</tr>
<tr>
<td>Q4. Complete a Mad Lib about reserve textbooks.</td>
<td>One space answered correctly or left question blank.</td>
<td>Two spaces answered correctly.</td>
<td>Three spaces answered correctly.</td>
</tr>
</tbody>
</table>
References


References


Image Credits

Batman Returns. Retrieved April 21, 2018 from


Questions?

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